

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=4; day=6; hr=12; min=57; sec=46; ms=460;]

=====

Application No: 10589029 Version No: 1.0

Input Set:

Output Set:

Started: 2009-04-06 11:23:04.767
Finished: 2009-04-06 11:23:06.657
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 890 ms
Total Warnings: 17
Total Errors: 0
No. of SeqIDs Defined: 17
Actual SeqID Count: 17

| Error code | Error Description |
|------------|---|
| W 213 | Artificial or Unknown found in <213> in SEQ ID (1) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (2) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (3) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (4) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (5) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (6) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (7) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (8) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (9) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (10) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (11) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (12) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (13) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (15) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (16) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (17) |

SEQUENCE LISTING

<110> Lawrence, David S
<120> Protein Kinase Inhibitors and Methods for Identifying Same
<130> 96700/1165
<140> 10589029
<141> 2009-04-06

<150> US 60/544, 376
<151> 2004-02-13

<150> PCT/US05/004410
<151> 2005-02-14

<160> 17

<170> PatentIn version 3.3

<210> 1
<211> 8
<212> PRT
<213> unknown

<220>
<223> sequence in protein kinase C-alpha inhibitor

<220>
<221> misc_feature
<222> (4)..(4)
<223> X= any amino acid or amino acid mimetic

<220>
<221> misc_feature
<222> (5)..(5)
<223> X= A or a Dap derivative

<220>
<221> misc_feature
<222> (6)..(6)
<223> X= F, L or I

<220>
<221> misc_feature
<222> (7)..(7)
<223> X= R or K

<220>
<221> misc_feature
<222> (8)..(8)
<223> X= A or a Dap derivative

<400> 1

Ala Arg Arg Xaa Xaa Xaa Xaa Xaa

1 5

<210> 2

<211> 9

<212> PRT

<213> unknown

<220>

<223> sequence in protein kinase C-alpha inhibitor

<220>

<221> misc_feature

<222> (5)..(5)

<223> X = A or Dap

<220>

<221> misc_feature

<222> (8)..(8)

<223> X = Q or Dap

<400> 2

Ala Arg Arg Gly Xaa Leu Arg Xaa Ala

1 5

<210> 3

<211> 5

<212> PRT

<213> unknown

<220>

<223> preferred consensus sequence for protein kinase C-alpha

<220>

<221> misc_feature

<222> (4)..(4)

<223> X= F, L or I

<220>

<221> misc_feature

<222> (5)..(5)

<223> X= R or K

<400> 3

Lys Gly Ser Xaa Xaa

1 5

<210> 4

<211> 6

<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-beta I, protein kinase C-beta II and protein kinase C-gamma.

<400> 4

Arg Lys Gly Ser Phe Lys
1 5

<210> 5
<211> 5
<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-delta

<220>
<221> misc_feature
<222> (1)..(1)
<223> X= K or Q

<220>
<221> misc_feature
<222> (5)..(5)
<223> X= F or M

<400> 5

Xaa Gly Ser Phe Xaa
1 5

<210> 6
<211> 5
<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-epsilon

<220>
<221> misc_feature
<222> (2)..(2)
<223> X= M or K

<220>
<221> misc_feature
<222> (4)..(4)
<223> X= F or A

<220>
<221> misc_feature
<222> (5)..(5)
<223> X= G, Y, D or F

<400> 6

Lys Xaa Ser Xaa Xaa
1 5

<210> 7
<211> 6
<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-eta

<400> 7

Arg Arg Ser Phe Arg Arg
1 5

<210> 8
<211> 5
<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-zeta

<220>
<221> misc_feature
<222> (1)..(1)
<223> X = R, Q, K or E

<220>
<221> misc_feature
<222> (2)..(2)
<223> X = M or G

<220>
<221> misc_feature
<222> (4)..(5)
<223> X = F or M

<400> 8

Xaa Xaa Ser Xaa Xaa
1 5

<210> 9
<211> 5

<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-mu

<220>
<221> misc_feature
<222> (1)..(1)
<223> X= Q, K, E or M

<220>
<221> misc_feature
<222> (4)..(4)
<223> X= V, M or L

<220>
<221> misc_feature
<222> (5)..(5)
<223> X= A, M or V

<400> 9

Xaa Met Ser Xaa Xaa
1 5

<210> 10
<211> 7
<212> PRT
<213> unknown

<220>
<223> consensus substrate sequence for protein kinase C-alpha

<220>
<221> misc_feature
<222> (6)..(6)
<223> X= F, L or I

<400> 10

Arg Arg Lys Gly Ser Xaa Arg
1 5

<210> 11
<211> 5
<212> PRT
<213> unknown

<220>
<223> sequence of peptide substrate used for PKC alpha, beta and gamma assays

<400> 11

Ser Phe Arg Arg Arg
1 5

<210> 12

<211> 11

<212> PRT

<213> unknown

<220>

<223> sequence of peptide substrate for PKC epsilon and zeta assays

<400> 12

Pro Arg Lys Arg Glu Gly Ser Val Arg Arg Arg
1 5 10

<210> 13

<211> 9

<212> PRT

<213> unknown

<220>

<223> starting consensus sequence peptide for derivation of PKC
inhibitors

<400> 13

Arg Arg Gln Gly Ala Phe Met Tyr Phe
1 5

<210> 14

<211> 12

<212> PRT

<213> unknown

<220>

<223> sequence of peptide substrate for synthesis of PKC isoforms

<400> 14

Pro Arg Lys Arg Gln Gly Ser Val Arg Arg Arg Val
1 5 10

<210> 15

<211> 6

<212> PRT

<213> unknown

<220>

<223> sequence for peptide substrate for PKC alpha, beta and gamma
assays

<400> 15

Ser Phe Arg Arg Arg Arg
1 5

<210> 16

<211> 12

<212> PRT

<213> unknown

<220>

<223> sequence for peptide substrate for PKC delta, epsilon, theta,
eta, iota and zeta assays

<400> 16

Pro Arg Lys Arg Glu Gly Ser Val Arg Arg Arg Val
1 5 10

<210> 17

<211> 9

<212> PRT

<213> unknown

<220>

<223> protein sequence in inhibitor of PKC

<220>

<221> misc_feature

<222> (5)...(5)

<223> X = a Dap derivative

<400> 17

Arg Arg Gln Gly Xaa Phe Met Tyr Phe
1 5